

SEQUENCE LISTING

<110> Kenneth W. Dobie

<120> ANTISENSE MODULATION OF CD36L1 EXPRESSION

<130> RTS-0339

<160> 91

<210> 1

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 1

tccgtcatcg ctcctcaggg

20

<210> 2

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 2

atgcattctg cccccaagga

20

agg gag tcc agg cac aaa agc aac atc acc ttc aac aac aac gac acc 399
 Arg Glu Ser Arg His Lys Ser Asn Ile Thr Phe Asn Asn Asn Asp Thr
 95 100 105 110

gtg tcc ttc ctc gag tac cgc acc ttc cag ttc cag ccc tcc aag tcc 447
 Val Ser Phe Leu Glu Tyr Arg Thr Phe Gln Phe Gln Pro Ser Lys Ser
 115 120 125

cac ggc tgc gag agc gac tac atc gtc atg ccc aac atc ctg gtc ttg 495
 His Gly Ser Glu Ser Asp Tyr Ile Val Met Pro Asn Ile Leu Val Leu
 130 135 140

ggc ggc ggc gtc atg atg gag aat aag ccc atg acc ctg aag ctc atc 543
 Gly Ala Ala Val Met Met Glu Asn Lys Pro Met Thr Leu Lys Leu Ile
 145 150 155

atg acc ttg gca ttc acc acc ctc ggc gaa cgt gcc ttc atg aac cgc 591
 Met Thr Leu Ala Phe Thr Thr Leu Gly Glu Arg Ala Phe Met Asn Arg
 160 165 170

act gtg ggt gag atc atg tgg ggc tac aag gac ccc ctt gtg aat ctc 639
 Thr Val Gly Glu Ile Met Trp Gly Tyr Lys Asp Pro Leu Val Asn Leu
 175 180 185 190

atc aac aag tac ttt cca ggc atg ttc ccc ttc aag gac aag ttc gga 687
 Ile Asn Lys Tyr Phe Pro Gly Met Phe Pro Phe Lys Asp Lys Phe Gly
 195 200 205

tta ttt gct gag ctc aac aac tcc gac tct ggg ctc ttc acg gtg ttc 735
 Leu Phe Ala Glu Leu Asn Asn Ser Asp Ser Gly Leu Phe Thr Val Phe
 210 215 220

acg ggg gtc cag aac atc agc agg atc cac ctc gtg gac aag tgg aac 783
 Thr Gly Val Gln Asn Ile Ser Arg Ile His Leu Val Asp Lys Trp Asn
 225 230 235

ggg ctg agc aag gtt gac ttc tgg cat tcc gat cag tgc aac atg atc 831

ggc att gga caa act ggg aag att gag cct gtg gtc ctg ccg ctg ctc 1311
 Gly Ile Gly Gln Thr Gly Lys Ile Glu Pro Val Val Leu Pro Leu Leu
 400 405 410

tgg ttt gca gag agc ggg gcc atg gag ggg gag act ctt cac aca ttc 1359
 Trp Phe Ala Glu Ser Gly Ala Met Glu Gly Glu Thr Leu His Thr Phe
 415 420 425 430

tac act cag ctg gtg ttg atg ccc aag gtg atg cac tat gcc cag tac 1407
 Tyr Thr Gln Leu Val Leu Met Pro Lys Val Met His Tyr Ala Gln Tyr
 435 440 445

gtc ctc ctg gcg ctg ggc tgc gtc ctg ctg ctg gtc cct gtc atc tgc 1455
 Val Leu Leu Ala Leu Gly Cys Val Leu Leu Leu Val Pro Val Ile Cys
 450 455 460

caa atc cgg agc caa gag aaa tgc tat tta ttt tgg agt agt agt aaa 1503
 Gln Ile Arg Ser Gln Glu Lys Cys Tyr Leu Phe Trp Ser Ser Ser Lys
 465 470 475

aag ggc tca aag gat aag gag gcc att cag gcc tat tct gaa tcc ctg 1551
 Lys Gly Ser Lys Asp Lys Glu Ala Ile Gln Ala Tyr Ser Glu Ser Leu
 480 485 490

atg aca tca gct ccc aag ggc tct gtg ctg cag gaa gca aaa ctg tag 1599
 Met Thr Ser Ala Pro Lys Gly Ser Val Leu Gln Glu Ala Lys Leu
 495 500 505

ggtcctgagg acaccgtgag ccagccaggc ctggccgctg ggccctgaccg gccccccagc 1659
 ccctacacccc cgcttctccc ggactctccc agcagacagc cccccagccc cacagcctga 1719
 gcctcccagc tgccatgtgc ctgttgca cctgcacaca cgccctggca cacatacaca 1779
 catgcgtgca ggcttgtgca gacactcagg gatggagctg ctgctgaagg gacttgtagg 1839
 gagaggctcg tcaacaagca ctgttctgga accttctctc cacgtggccc acaggctgac 1899
 cacaggggct gtgggtcctg cgtccccttc ctgggtgag cctggcctgt cccgttcagc 1959
 cgttggggcca ggcttctccc cctccaaggt gaaacactgc agtcccgggtg tgggtggctcc 2019
 ccatgcagga cgggccaggc tgggagtgcc gccttcctgt gccaaattca gtggggactc 2079
 agtgcccagg ccctggcacg agctttggcc ttggtctacc tgccaggcca ggcaaagcgc 2139

ctttacacag gcctcggaaa acaatggagt gagcacaaga tgccctgtgc agctgcccga 2199
gggtctccgc ccaccccggc cggactttga tccccccgaa gtcttcacag gcactgcatc 2259
gggttgtctg gcgccctttt cctccagcct aaactgacat catcctatgg actgagccgg 2319
ccactctctg gccgaagtgg cgcaggctgt gcccccgagc tgccccacc ccctcacagg 2379
gtccctcaga ttatagggtg ccaggctgag gtgaagaggg ctggggggccc tgccttcagg 2439
gcgctcctgg accctggggc aaacctgtga cccttttcta ctggaataga aatgagtttt 2499
atcatctttg aaaaataatt cactcttgaa gtaataaacg tttaaaaaaa tggaaaaaaa 2559
aaaaaaa 2566

<210> 4

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 4

ctgggctctt caccgtgttc 20

<210> 5

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 5

tcagcccggt ccacttgtc 19

<210> 6

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Probe

<400> 6

ccagaacatc agcaggatcc acctcg

26

<210> 7

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 7

gaaggtgaag gtcggagtc

19

<210> 8

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 8

gaagatggtg atgggatttc

20

<210> 9

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Probe

<400> 9

caagcttccc gttctcagcc

20

<210> 10

<211> 972

<212> DNA

<213> Homo sapiens

<220>

<400> 10

ggcactgcat cgggttgtct ggcgcccttt tcctccagcc taaactgaca tcatcctatg 60
gactgagccg gccactctct ggccgaagtg gccgcaggct gtgccccga gctgccccca 120
ccccctcaca gggtcctca gattataggt gcccacgctg aggtgaagag gcctgggggc 180
cctgccttcc gggcgctcct ggaccctggg gcaaacctgt gacccttttc tactggaata 240
gaaatgagtt ttatcatctt tgaaaaataa ttactcttg aagtaataaa cgtttaaaaa 300
aatgggatgc ctgcctctgt gacagccttg tttgctgagg tcgtgggggt gggggcctct 360
gggaagtcc gggctcctct tctcttggtc aatagctcct ttctgggtggc tgccaagagc 420
gtctctccca ggccgggctg ctggcttacc ttctgtgtt ttcaaatttc aaccttgtgc 480
aatgttgagt ttcatagaaa tactgcatga gtacgccctt gtttagaagc agcagggtct 540
gagtcccatc ccacagcccc agtgacagc cttttgccac ttttgcattg gggccccctg 600
atgtgtttct gtgcatttat ctacaaatcc tgggtgcccg aggacatgcc cgtgtgttct 660
aaggcctttg ctctctgtcc ttacctaaaa ggtgagaaga gagcggtta gaggacagat 720
gggcatctaa aagtctcatc ttagtgtgat cctgcaacga ggattctcga ttggcatcct 780
gctcagttga gctggacatt ccaggattta ggtgcccggg actactggga ggacaggctc 840
cgcaattcag atttgaacac ttgggaagg gctacaagg gtttcccca ataagatatt 900
taggggatac ccgtcgcaat ttgcaaaagg ggtacgcccc tttgttatgg cgtggactta 960
caaagttttc gt 972

<210> 11

<211> 719

<212> DNA

<213> Homo sapiens

<220>

<400> 11

gctcaggccc cgcccctgcc gccggaatcc tgaagcccaa ggtctgcccg ggggcggtcc 60
ggcggcgccg gcgatggggc ataaaaccac tggccacctg ccgggctgct cctgcgtgcg 120
ctgccgtccc ggatccaccg tgcctctgcg gcctgcgtgc ccggagtccc cgcctgtgtc 180
gtctctgtcg ccgtccccgt ctcttgccag gcgcggagcc ctgcgagccg cgggtggggc 240
ccaggcgcgc agacatgggc tgctccgcca aagcgcgctg ggctgccggg gcgctggggc 300
tcgcggggct actgtgcgct gtgctggggc ctgtcatgat cgtgatggtg ccgtcgctca 360
tcaagcagca ggtccttaag aacgtgcgca tcgaccccag tagcctgtcc ttcaacatgt 420
ggaaggagat ccctatcccc ttctatctct ccgtctactt ctttgacgtc atgaacccca 480
gcgagatcct gaagggcgag aagccgcagg tcggggagcg cggggccctac gtgtacaggg 540
cagttcaggc acaaaagcaa catcaccttc aacaacaacg acaccggtgt ccttcctcga 600
gtaaccgacc ttccagttcc agccctccaa gtcccacggc tcggaagagc gactaccatc 660
gtcatgcccc aaatcctggt cttgggtgcg gcggtgatga tggagaataa gcccatgag 719

<210> 12

<211> 485

<212> DNA

<213> Homo sapiens

<220>

<221> exon:exon junction

<222> (277) ... (278)

<223> exon 12:exon 14

<400> 12

cccggtcacg ggaatcccca tgaactgctc tgtgaaactg cagctgagcc tctacatgaa 60
atctgtcgca ggcattggac aaactgggaa gattgagcct gtggtcctgc cgctgctctg 120
gtttgcagag agcggggcca tggaggggga gactcttcac acattctaca ctgagctggg 180
gttgatgccc aaggtgatgc actatgcccc gtacgtcctc ctggcgctgg gctgcgtcct 240

gctgctgggc cctgtcatct gccaaatccg gagccaaggt cctgaggaca ccgtgagcca 300
gccaggcctg gccgctgggc ctgaccggcc cgcgaggccc tacaccccgc ttctcccgga 360
ctctcccagc ggacagcccc ccagccccac aggctgagcc tcccagctgc atgtgcctgt 420
tgcacacctg cacacacgcc ctggcacaca tacacacatg cgtgcaggct tgtgcagaca 480
ctcag 485

<210> 13

<211> 41322

<212> DNA

<213> Homo sapiens

<220>

<221> exon:intron junction

<222> (9980)...(9981)

<223> exon 8:intron 8

<221> intron

<222> (17618)...(22472)

<223> intron 9

<221> intron

<222> (22547)...(30283)

<223> intron 10

<221> intron:exon junction

<222> (30283)...(30284)

<223> intron 10:exon 11

<221> intron:exon junction

<222> (31237)...(31238)

<223> intron 11:exon 12

<221> intron

<222> (31385)...(34929)

<223> intron 12

<221> intron

<222> (35059) ... (39154)

<223> intron 13

<221> intron:exon junction

<222> (39154) ... (39155)

<223> intron 13:exon 14

<400> 13

cgtcatgaac	cccagcgaga	tcctgaaggg	cgagaagccg	caggtgcggg	agcgcgggcc	60
ctacgtgtac	aggtgaggct	gtgtccaggt	gagggtgagg	gggccggctg	aggctgggca	120
ggggaggggt	ctcagagtgg	acgggatggg	gaggctgctg	actgagcccc	agagattgtt	180
ccggaagcag	gcaagtcata	gtcggggtaa	gtgctagtcc	cagagaagtt	tttgttttag	240
ggtttttttt	tttttttttt	tttttttttag	agatgggatc	ttgctatgtt	gcccaggctg	300
gttttgaaagt	cctgggctca	agcgatcctc	cgcctcagcc	tctcaaagtg	ctgggattac	360
aggtgcgaat	caccgacgt	tgcctagaga	ggttctttat	ggagcagggg	gggaccaatg	420
gtgtgcgtct	gggtggaggg	tgcattgtgt	agttacacac	atacatacac	acacatacac	480
atacacatac	acacatacat	acatacacac	gtacatacac	atacacacac	acatacatac	540
acacacatgt	acctacacat	gcatacacac	atacacacac	acacacacac	acacacacac	600
atgcatgacc	aggagcaggg	accgaccccc	cagaccctat	ctgggccaga	ggaccgggtg	660
ggtcagcacg	ggaaggggtc	agctgtttgt	ggaacatgct	ggcccaagga	ccacagagtt	720
gtgcctttgc	tttctgcttg	tcctgtacct	ggctgtggcc	taggggaagt	gacttcattc	780
ctctgagcct	cagtttgccc	gtctgcagac	tggagagaca	caagagcccc	ttcatggggt	840
caccggggaca	ctcaggatgc	actcggagct	ctgagacggc	tggcggatgt	gcctgttaca	900
actcccttac	ctcctggcgt	tttcacagca	cctccccctc	tccacacccc	cacttcccag	960
ttcacagaca	ggggagctga	cttgcccccg	gcacacgggt	ttccagggat	ggggcgggca	1020
gaggggtgttc	ccgctgttgg	agaccacag	tctggttctg	ggaaagccaa	gatgaaaacc	1080
cagcaaattgt	gcctgaggtt	tgggaatggg	aaacatgaat	cagctgctgc	attccgttca	1140
ctcattcact	cattcgctcg	ttcatttaac	aaatgtttac	tgagcacctg	ctaggtgttg	1200
gctgccgttc	taagtacagg	ggaccacag	gtggacagaa	tgggcaaaaa	tgccaaagct	1260
ctctatactc	cttcattctg	tgagcactga	ctgagcacct	cctgtgtgct	gggggcgcag	1320
gcagaccaag	gccctgcctc	accaagctga	tgttctgatg	gggagagagt	aaagaagtgg	1380
acaaataagg	ggaaatcagg	cagccatcag	tattgtgcag	acaaaacagt	gtgaagccgg	1440
agtgcaggag	ggaggggtgg	cttggggctc	ggtctgactg	gaggggtcggg	agcacatctg	1500
caaaggggaca	ctcactggac	ccgcatgggt	ggaagaggcc	ctggggagac	agagtcccgg	1560
gcagagcatg	tgcaaaggtc	tgaaggctgg	gacagaggcc	tgtgcggctg	gggttacgag	1620
ggaggggagac	agtggagaga	cgaggcctga	gccttgctga	gggcctcaga	ggtcacgtta	1680

ggagcctgat	tttaacctgc	atgcaaagt	gggttgtggt	ccagagcatg	gcacgatctg	1740
atttctactt	ttttttttga	gacggagtct	ctctttcacc	caggttggag	tgcggtggcg	1800
cgatctcggc	tcactgcaac	gtccgcccc	caggttcaag	cgattctcct	gcctcagcct	1860
cccgagtagc	tgggattaca	ggcatctgcc	accatgcca	gctaattttt	gtatttttag	1920
tagagacgtg	gtttcgccat	gttgggcagg	atggctctga	actcctgaca	tcaggtgatc	1980
tgcccacctc	agcctcccaa	agtgtctggg	ttacaggcat	gagccactgc	tcccagactg	2040
atttcactt	ttcaaagatt	cttctggatg	gtggagagtg	gcttggagag	atgagagatc	2100
ataaggacag	cagcagcaac	agtcacagca	gctgatgttt	acctcgtgct	ttctctgcac	2160
ccggcggctg	tgttgattgc	tttctgggta	tctgattgct	taatccccac	agctgccctg	2220
tgaagtaggg	cttgtgatta	cttccttttg	tagatggaga	gacgatggcc	gtgttgggtg	2280
ggggagagca	gaacgaggcc	gggtgggcgg	cgacaccatg	tcctgcagtg	ggcaggcggc	2340
gggagggaca	gacttggcga	aggggccgag	ctcagctttg	gctgtggggc	cggaggtgtg	2400
cacagacgtc	cagggcccct	ggttcccagg	caggcattgc	aggcgagtag	aagggaaacg	2460
tcccatgcag	cggggcgggg	cgtctgaccc	actggcttcc	cccacaggga	gttcaggcac	2520
aaaagcaaca	tcaccttcaa	caacaacgac	accgtgtcct	tcctcgagta	ccgcaccttc	2580
cagttccagc	cctccaagtc	ccacggctcg	gagagcgact	acatcgtcat	gcccacatc	2640
ctggctcttg	tgaggctgcc	ctgtggccca	cgccgcctcg	cacctgacc	tcgtcccctg	2700
tctctcctcc	cgcctgcccc	ttgtgcagag	agcagtcctt	gaggtggtcg	gagcgtgggg	2760
actcacgcct	ggtgggtggc	tttcggccct	gtgtgtcttc	caccaccccc	agtgggttct	2820
gagtttccca	ggtgggtcca	cctgtcttgg	tttggaagtc	ctggccaaag	tacttttttt	2880
tcccttttca	atttacattt	ctgagatctc	caaaaggggc	tgtcttggtg	agggctgagc	2940
cacaggcccg	cctctgggac	tggggctgga	gttcacttag	cctgagttca	gtgggggtgca	3000
agggggagaa	ggggttctcg	ggagcacatg	tggccttggc	actggaggag	cagaggttgg	3060
ttctgggtgc	ccagatgccc	cacgtggcca	ctccaggggc	ctcctgcacc	ccagcatttc	3120
ccttcatggg	ctctttgctg	tgaggccag	ctggggccaa	gggaggatgg	gccagccacg	3180
tccagcctct	gacactagt	tcccttcgcc	ttgcagggtg	cggcggtgat	gatggagaat	3240
aagcccatga	ccctgaagct	catcatgacc	ttggcattca	ccacctcgg	cgaacgtgcc	3300
ttcatgaacc	gcactgtggg	tgagatcatg	tggggctaca	aggacccctt	tgtgaatctc	3360
atcaacaagt	actttccagg	catgttcccc	ttcaaggaca	agttcggatt	atttgctgag	3420
gtacgtgtgg	cctggtgaga	agccaaagat	tcaggcctgt	gtcctgtott	cccctcacac	3480
agcctggaca	ctggtcacca	gcttgctttg	tagctggctg	gggatctagt	ggctgtgggt	3540
tgtaagtgac	tgagaacctg	actcaaaccg	gcttgagtga	aatggggaat	gttggggctc	3600
atagaactga	aaatgctagg	gttggattca	ggtacagctt	gatccaggct	caaatgatgt	3660
gactgggcct	tagcttagca	aattggaggc	tttgctggag	gaagggggca	tggctgctgg	3720
ggagtaatat	cacaagctga	ctcttaattc	tgactcttgg	caacctggta	gggtcactga	3780
ctgggcttcg	gagccaacat	ctcgtccatg	gagggctctga	ccctgacctt	ggctccctca	3840
ccgcaggttt	cactgagtcc	ttgggactgc	tccagcctca	gccatctctt	tggtctctgc	3900
tgatcagggt	agagtgtctg	gggggatatc	gtggtgctgc	gtgtgataga	tactcagtac	3960

gtttttgtca aggggtgacgg gctcctgtcg tgtgggtaaa tgagcaagtt tgggctaagt 4020
 ggcattgatgc tgtaaaggca tcttgtaaact cctgaagtgc tttgcaaagt aaagttatta 4080
 caaagtccct agtttagtat aatctacgtt tgactgcata taatgaaaac ctcaacaaga 4140
 aagtctagcg gtaggctgtt cagtgttggg gtgggtggctt catggcttta agtgatctgg 4200
 aagccttcta ctactgtgct ctgccatcct tggcatgtgg ttttcacatc caagataacc 4260
 tcattgtcca agttggctgc tagagtgtca gcaatcacat caccattccag gcagcacagc 4320
 aagaagggaaa aaatgggtggg gctttgggga gcagatggag gaactggggg taaaacagcg 4380
 tgttccagtt tcctccctct tagggaggaa gaaaaccaat gtccacttcc tttctattgg 4440
 ccagaactga gtcacatggc cacacctagc tccaggggaa gctggaaagg tagcctttta 4500
 gctgggtgtg ctgatgctct gagtatgggt tgggttttgt atgaaagagt aaggagagat 4560
 tgggcttttg gtagtaactg gcagtttctg atgctctccg tccattataa tgatcattta 4620
 agtatcctat tgggtgagca tttattaata ataacaataa taatgaaaat aaagactatc 4680
 attttgagct ctactgtgt cgggtgcact gtacctggcc gtttttgcac atgagtcctt 4740
 ttaatgctcc cctttgtagt ggctctgggt attcttggct ccacatgggc acgtgacaga 4800
 cacaccggg atgctgggct ggggccttgt gctgggtcct gctctggagg tctgtgatgg 4860
 gtgcagtcac tcagccgggc aaccttgagg ctctcagtg tgctccacc tgcaaagcac 4920
 ttctagatat ttcttcagt cactcatacc actttgtgct ttgcatgtct ttgggattag 4980
 aaaccagctt ctgggaaatg ctctcggagc accaaagcct gggcccccact atcaagaacc 5040
 tcgatgggtt aggacaggcc aggttttgct gctgtgacaa gcagccccgg aatctccatg 5100
 gcttagaaca accaagactt attcctttgc ttgcactcca cgtccagtgt gggtgactgg 5160
 ggcaccgcg cttgtggtgg tcacttgggg atccaggctg agggaggctc tgtcttgaca 5220
 catacctcct tggctgctat agcagcggca gagagcccg tgaaaggcgt gtgcacagtc 5280
 cttaaagcat ccccccaagt gacatgccac ttctcctttt tcattgctca gggagctgac 5340
 ctggccatgc tttattttat gctggagtag ggtgtggtgg gggtgatctg ccatttacct 5400
 gggaggaaaag ccagactctc ctggagttag gaagggaggg tggaacactg cagccacaga 5460
 acccgggacc attcctocta gaaagctccc aagcctctc tcgggtccca gacactgggc 5520
 atttggcagt gaaccagatg ctggggggccc tgtccttctg gtggaggggg aggagggctc 5580
 agcccagaat gttcagacca ggccggctca atggcaggcc taagccttac gatgctgttc 5640
 cctgctgtgt ctgtagctca acaactccga ctctgggctc ttcacggtgt tcacgggggt 5700
 ccagaacatc agcaggatcc acctcgtgga caagtggaac gggctgagca aggtgagggg 5760
 cgagaggcga gggccctgt cgccaggagg aggggagggt gggcccgcc atggctgctc 5820
 gggagtggca gggaccagag agctccttct tcctttgtcg tgaagagggt gctgggagga 5880
 tgaacactct tgaagttgga ggagggattt tacctctggg taaagcttga ccaccagag 5940
 gggcaggtgg ggttagtgat tgcttactga gcttactgag cacctggcat ctgctgggaa 6000
 ctgagtgett tcttcctttc gattctttac ttacaaaaat gttttgaagg ccgggcgtgg 6060
 tagttcatgc ctgtaatcc agcactttgg gaggccgagg tgggggggat cacctgaggt 6120
 caggagtctg agaccagcca ggccaacatg gcaaaacct gtctctacta aaatacaaaa 6180
 aattagctgg gtgtgggtgt gcatgcctgt aatcccagct actcatgagc tgaggcagga 6240

gaatcgcttg aacacaggag gtgaagggtg cagtgcgctg agatcacgca atttcacttc 6300
agcctgggtg agaagagtga aactcgggtc ccaaaaaaaaa gagaagagat tcacattaca 6360
aaataaaaca agagaggggag ataagtgtcc ttagtatcac ctcccacccc tacccttgc 6420
cccagaggaa acccacaatt atcagtttgg gatataattc tcccatccat ttttaccat 6480
gtgcacacct atatgtacgc agagaaatac ggaattgttt cttctttgaa catcatgaaa 6540
tcatactacg tgcattgttt tgcaactggc ttttttcacc ttcgtgacct tttctcaata 6600
tgtgtgaaaa tgactgtgtg acttcccact cccactccc cgtggtagtt actgcaaaga 6660
ccctgagggc tagggacaaa tcgtacccca accggtgtcc agagtggcaa aaatcaccat 6720
ctgcaactgg cagtagccat tcacgataga tggagttcac attcattgtg gcttgtatat 6780
tccaatatac tgtacatgtg cacgtgattt taaacatcct catcatacag aagattggaa 6840
agtgcagcgt tggttttgtc gagtctgggt ctgcgtcccc agagtcagtt aacctgacag 6900
gttctgtttt ggggttgccc ggtggtggcc accattatga ttttaagtag tttgcctgtg 6960
tgccgattgt tttcaggagg tgccgtttga cttccgctct gagggctgag cacagccgag 7020
ccccacctct cacctcacct gtcaccaca cttcttttcc agattcaggc tggaaatgtg 7080
ggtgataggc ctattttgca gatgaaagaa ctgagtcctt agcgaagtta cacattcagg 7140
ggtctgggag ggggaagctg tggtaggcac tctctctgtg tgtctacata gcctgccctc 7200
ttcccaccgt gccagtattg ggaattgagt ggccgtgctg gcaccagggt gagttagggtg 7260
tgcagcacct gagagggcct attaaggggc cttggcccta ctgaggggtc tagtctggat 7320
gcttcccccc aggttgactt ctggcattcc gatcagtgcac acatgatcaa tggaaacttct 7380
gggcaaatgt ggccgccctt catgactcct gagtcctcgc tggagttcta cagcccgag 7440
gcctgccggt aatcactggg actcggggcc tcctggggtt cctgggtagc tcatggccaa 7500
attctgtggt gttggctgtg cacttggaac gcattttgac tcatcgtgga tttgactcag 7560
tagcccttgg caccagcttg aattctcttt ggtcacacca ccaaaagcca aactccagct 7620
gccaatgcct ctacacagcc caaagagagg ctgctgggtg tggtttgag ccagggtggtg 7680
ctgggctggg aggagggggc aggacatgtc aagtcacagg gggccataaa atggaggcga 7740
gaggtgggct ccctctggcg tctggctggt ggccccatg accatctggg tgctgagaca 7800
tcagctggct ctgcttggcc ccttcaggct cagctctgtg tcccatggct ccagttgtgg 7860
ggtaagagta gacagtgggt ggctcctaca gcccttttct ggaggccttg ctgtgtcgtg 7920
ttccattctg gtcactctgg aaaagtcctt tacttaggaa ttcactcatg tggaccttga 7980
cttatctgcc ctcccagcaa accctgtgaa gccctactgt gtgccagggtg cccggtagtg 8040
agaggggtggg ccaagtctcc gttccccagg aggctggaat tcaactcatg ggaccttgac 8100
ttatctgccc tcccagcaaa ccctgtgaag ccctactgtg tgccagggtg ccggtagtga 8160
gaggggtgggc caagtctccg ttccccagga ggctgtgtcc tatcagggca actcaggcaa 8220
atgcacaaac actagagtgt cagagagtga cagtgccttt gctctgtgtg gccacttttt 8280
actattttta gtttttactt atttatttat ttaatttttt agagatgggg atctcgctat 8340
gttgcccagg ctagtcttga actcctagcc tcaagggatc ttctgtctc agcctcccaa 8400
agtgtgggga ttgcagggtg gagctactgt acccagctga ctttaaaagc tgaattttta 8460
acttaaagaa aagttgcatg agaaatacaa gtggcccccg tctccccttc acccagggtc 8520

actagccgtg ttaagcccc caccctctct tctcgcgag tgtctttttc cagaaccatc 8580
ggagagtagg ttggaggctg tatgccccct tacctccaaa tactcagtgg gtgttttttca 8640
gaaacgagga cattttctta cataaccata atgctgttat caaaatgaga aaatttggca 8700
ttgacataat actgttatct aagctggcac ttctctataa atcaaaatat gcaaggcaca 8760
catgcaatctt aaaattttttt agtggctgca ttaatacaag taacaagaaa ttggtgaaat 8820
tatttttaat aatgtattttt atttgacctc atatatcaaa aatgggatca tttcaagtgt 8880
tattgatgag gtgtttttttt tgtttttttt gctagcaagt attagaaatc tggaatgtat 8940
tttatacttg catcccaatt tggactcacc ccatgtcaag ggcgggatgg acagccatgc 9000
gtgctgagtg gctgccgtgg acagagtggg tagcacagtg catgttcaag ttcagaagtg 9060
cttttgagaa agtacaggag catgaatgga tggagggtgg atgggggtgg tgtgggggac 9120
gggtgctgcc cccgaggaag tgacagctga actgagatct gactgaaggg ctgaagtctg 9180
gtggatgaag atgccagagg agactgttct taggcagagg gagcagtgat gcaaagggcc 9240
tggggcagga gtgagtgtgc ttaggaactg cagggaggcc ctgggcacag gaagttgggg 9300
cagggtctgag cagagcttat gcaggggcta gataaggtca atgaatccta atggtaggtt 9360
agactagaaa gggtcacaga ttttcagcag gggcatgata tattctgttc tttttttaat 9420
ttcataactt tcaaaaacaa ttttattttt agagactggg tctcactatg ttccccaggg 9480
tggtctcaca ctctgggct caagtgatcc tcccacctcg gcctcccaa gtgctgggat 9540
tacaggtgtg agccataatg cctggcctct gttcttttgt aaaactccat ctggccacgg 9600
ctaatacatt gatgtgggtg gggaggcaga gtcggagcgg agaggcctgt taggaggtcg 9660
ctgcagctcc gcgggtgaga gatgggggag gtttggaacc gggaggtggt agcgcccgtg 9720
gggagaagtg gctggatctg ggcagccttt ggcagggcct ggctctggcc gccgggtctg 9780
gggtgtccct ctcatcctgt ctgtcccctg cagatccatg aagctaattg acaaggagtc 9840
aggggtgttt gaaggcatcc ccacctatcg ctctgtggct cccaaaacc tgtttgccaa 9900
cgggtccatc taccacacca acgaaggctt ctgcccgtgc ctggagtctg gaattcagaa 9960
cgtcagcacc tgcaggttca gtacgtgccg tcccctgtgc tgggatggcg ggagggtgtg 10020
aggggtggggc cagctgaggg tttatctgcc cagtgtgtc tgcttaatct ctggcctctg 10080
tactcttgat aatcccatata ggcgaagata atgaggccgc aggaagataa tctgaaaagg 10140
aagaaatgcc aggtctatta gttgctgtca caatatattg ccatgaactt cagggttag 10200
aacaacacac actggttatc ttgcagttct gtagtcagaa gtctgctgg gtctcaccgc 10260
gtcagaaca aggcggctgt gttccttctg gaggtcttag gagaagctgc gtctgccttt 10320
tctggcttcc agaggccct ctgtgtttct tggctcccg gcccttcct cacttttgag 10380
gccagcaaca tggcatcctt ctgatccact ctgtcctcat atctcttct ctctccctc 10440
ttctgcccc tcttcagtt ctaaggacct ttaagaccac atcgtgctct cctggatacc 10500
ccaggacaat ctccccatct tgtttattat tatttttttt gagacagact ctactctgt 10560
taccaggtt ggagtgcagt ggcgccattt cagctcactg caacctccgc ctcccaggtt 10620
caagtgatcc tcccacctca gcctcccgag tagttgggac cacaggcgtg caccaccaca 10680
cctggctaatt tttttgtatt ttggttagag atgggggttt caccatgttg ccaggtgg 10740
tcttgaactc ctgacctcaa gtgatctgcc tgctcggcc tcccaaagt ctgggattat 10800

agggtgtgagc	caccgcgccc	agcctatttt	tatattttga	gacaagggtat	cactctgtag	10860
cctggagctg	gagtatagtg	gtgcgattat	agctcactgc	agcctcgacc	tcatgggctc	10920
aagcgatctt	cctgcctcag	cctcctgagt	agctgggacc	gcagggtgtgg	gcatgatac	10980
ctagctaatt	ttatttttgt	aaagttttta	tagagatggt	gtttcaccat	gttgcccagg	11040
ctggtctcaa	acacctggcc	tcaagtgate	cacctgcctc	tgcgtgttaa	agcaatggga	11100
ttacaggtgt	gagccactgt	gcccggccca	atttctggac	cttcaaggca	gctgctgagc	11160
aggcccagcg	cccgtttacc	ctgtgacctg	acatagtcat	gggttctggg	gcttagggca	11220
tgtacgtgtc	ctaaatgaca	tgaaatgagg	ctggcgaggg	tctgtgtgtt	acgtaacatc	11280
ttctcgttcc	gcagtgtggg	tggctaggca	gatgtgatga	ctgctgttgg	cgtcggctcc	11340
ctgacattgt	tgggtgtgtc	caattgtgtg	ccagtccctg	agacaccccc	acctcaagtt	11400
gtcagtttg	gaccctcggg	cgtcagtttg	tttcctgtc	ctcaccacgc	tcttcacgtg	11460
cgtcaacaag	cccagatggc	tttacctcca	ggttgagtc	tactccttc	ctctctcttg	11520
ctccccaccc	caacccccgc	ctcattgtcc	aggccacgga	cacgtccttc	ctggtgatcc	11580
agccctttca	gtagcccatc	cctcaatgca	gtgttgccgc	cttaccatcc	atcccctaga	11640
ccatccagtg	cggtcactgc	tggcctcttg	cggctgttta	aattgaaatt	gatttaaacy	11700
aaatcaaatt	aaaaggcagt	tccttggttg	caccggccgg	aagttaaatg	ctcataagcc	11760
atgtgtgtct	agcagctact	gtcttggtga	gcacagatag	agaacatttc	catcatcata	11820
ggaagtctctg	tagcactccc	gacagcagcg	gagggatctt	ttaacaatgc	aggccgagtg	11880
tgggtggttca	cgctgttaat	cacaaccctg	taggaggccg	aggtgggagg	atcacttcag	11940
gccaagagtt	cgagaccagc	ctgggcaata	tagcaagacc	tctctctggc	aaaaaaaaaa	12000
aaaaaaaaaaaa	aaaaattagc	taggcatggt	ggtgcatgcc	tgtagtccta	gctacgtgga	12060
aagctggggg	ggaaggatgg	cctaagccca	gagggtcaagg	ctgcagttag	ctgtgatcac	12120
cccactgcac	tccagcctgg	gcaacagagg	aagaccatc	tcgaaaaata	tgcagatggc	12180
cgccgtcctc	ttaaaatgtc	tggcagctct	gtctgcatte	atagtgaagt	ccaaactccc	12240
accatggccc	tgggcctctc	aggatccagc	ccctaccggc	ctctctgaag	gatccagccc	12300
caccagcctc	tctgactcca	tttctcccta	cacgtcccct	gttcattatt	ctccagccct	12360
gatgccttcg	ccctttttct	aaagtatacc	aaggtcagtg	ccttgccactg	tggtttgcat	12420
gggttgcttc	ccctgcttgg	agagctcttt	gtctggattt	ctgagtggat	catccctcac	12480
cttcttttgg	cctgcatgca	aatgccacct	cctccggggag	gcctcctctg	atttcctgtt	12540
ctaaagttgc	cccctctccc	acctgctgct	ccctatggct	tcctcttctt	gtcttcttgt	12600
cttgggtcttc	ttgtcttcct	cttcttgtct	tgggtgctcat	tgtctccctga	actcatggac	12660
tgtggatttt	attcattgcc	ccttcacatc	actgtcatcc	ctgtaggcag	ggccccaaagc	12720
tcctcttggt	ggttttattc	ttagcttcta	gaactgtgcc	cgcgatgtaa	tgggtactca	12780
tacagtattt	gaatataggg	atgggtgagtg	cgttctgtac	ttaggaaatt	gaggcctgat	12840
gctggatgcg	accaaggtca	caggggtggg	aggaccggaa	gcggccctct	atttgactgt	12900
gtcttgccct	ctgggagcct	ttttggttga	agccccgtcc	tccagctggc	aatggcgact	12960
ctaaaggact	ggtctgcaac	aggggtcagg	aggaggggct	gtcaacagat	tggatgcttt	13020
cccctatttc	aggcagaatg	gaacaacctg	tgaatgaatg	qtttqqagct	qqggcctqqq	13080

acgcccgcctg ctgtctcctg gtcctgtctg gcccgctctgg gcattggcct ctgcttgctt 13140
cattcttttg c tgggtatcggc ggggatttct gtcctaagg ttgaggatgt tacacaccca 13200
atagggtgtg tacagcaact gtcgcaagt gcagatgctg gactccacct gatttaggcc 13260
aaaagggcac ttcttggttt gcgtaatgaa aaattccagg gcagatctct gcattaggca 13320
caaataccaga acttagatgt tgtctggaag ctgcctctgc caagtcccag ctcagttttc 13380
tgctggactg gctttgctgc caagcaggct ctccctcctg gctgcctgtg gaggctccag 13440
gtcacctcc gccagctcc gagtcctgca gaaagggggc cacctgtgtt tccttcactc 13500
cagcagaagt tccagggttt gctctaattg gtctgcctgg ctcccatgcc cagctgtaaa 13560
ccaatcacag tagccgaggt ggactatgct gattggccag gcttgtgtca catgctcaga 13620
tggctcctgg gtgggccggc cccactccaa gcacaaggct gaaagtaggg aaggcttaaa 13680
gtgggggtgt aggtaccagg agaaggggga gaaacgacat gcccatcccc tccaagggcg 13740
tgggacgagg tgtgtcccg cttctcttag cacatctgcc aaaagaattt caaaagcgca 13800
aaggaatttt aaaatcttta tttaaataga gttttttctt atattttatt atatttttga 13860
gacagggttt ctctgttgcc caggetcaag tgcagtgggt caatcacagc tcacagcagc 13920
cttgacctcc tgggcacaaa tgattctccc acctcagcct cccaggtagc tgggagcaca 13980
ggtacacacc accatacctg gctaatttat tttatcttat ttcaattttt tttttttttt 14040
tttttttttt ttagaggtg gggttgtgcc gtcttgccg ggcttagttt ttgcttctaa 14100
ataaaatata catagataca aagaagttcc cagatgactc atgcagtttt tgggggtttt 14160
tgctttgttt tttgagacag ggtatcactg tcgcccaggc tggagtgcag tggtgccatc 14220
atggctcaca gcagtctgac ctccatcact caattgatcc tcttacccca gcctcctgag 14280
tagctgggac tacaagcggg tgctaccatg cccagctaat tcttaaattt tttttaagag 14340
acggggtctc accatattgc ccaggctagt cttgaagtcc tgggctcaag tgatcctccc 14400
gccc aaagt ctgggattac aggcataaac cgctgcgcct ggctgacacc tgcagtttga 14460
aacttcacaa agtcaacgca ccccggtggc agcaccctga ctgagaaaca gacaggacag 14520
gccctggatg ccaactcgcg tcctcccacc gccctgacat ccagccccgg agctcagctg 14580
gtttgcatct tcatgtgaat ggaccataa tgctagactc cttttcctcc ttttctggtc 14640
cgtgcacccc ttagcacctt ggtgcaattc gtccgtgacg ttgtgggtgg tagcagcccc 14700
tcctctccgt tgetgtgtgg tgttccatcg tgggtgccac ctccatcttc tccttccatt 14760
gtccttaggc atccaagttc ctgtttttcg accgtgaccg tgggtgcacac gtgtcgtttg 14820
gtgcacctat gtctgtgttt ctgtggcatg ttatctaaag agtaaaggta ccatgccttt 14880
gcctttctgg gccttgaaat ctgttggaact cagacaactc cctcatctca aacctccctg 14940
ttgcgtgagg gcatccgact tgctccacag agccaactaa ttatcatcgg tggcaatcct 15000
gggcaattat gtctggctag atatgccata aagctacaaa ttaattacca cttacagctg 15060
ggaagatctc tctcggcgtg cttggtaata acattggaag aaacacgtgc gtgggtccat 15120
gcaggctcgg cctctgaagc aagggcgggg gctggcaagt tgttccatcc cacctcggtc 15180
tcacactggg gctgtgggca ggccagggt tgtttgagat tcctccagag ttcggctccg 15240
tggctgcctc ctccacggag gaggcacgag aggcagcgtt ttccagattg tggaggacac 15300
tgtccctgcg ggtgcttggg atggcttcag aaggccaag gaggtgagag tgagcttctg 15360

gggccatgct cttttcctcc ttgccatcac ctgcaggaga aggtctcttg gtgttgagag 15420
gacttgaaga gccttccaca ctcatcagcc ttttttgttt tgttttttct tttaacagaa 15480
aaagagcagg gctcccagtt aaagcctcat gcagtaacag gttctagtta gaacttacaa 15540
catcattatt ttccacggta ttttttaact atgtcttttt tttttttttt tgagacacag 15600
tcttgctctg ttgccaaggc tggagtgcaa tggtgcaatc ttggtcacc acaacttctg 15660
cctcttgggt tcaagcgatt ctctgcctc agcctcctga gtagctggga ttacaggtgt 15720
gcaccaccag gcccggctaa ttttgatatt ttagtagaga cgggggtttct ccatatcggg 15780
caggctgggc gtgaactccc aacctcaact ggtccacccg cctcggcctc ctaaagtgt 15840
gggattacag gcgtgagcca ccgcgcccgg ccctttatatt tatatttttt tttttgagac 15900
acagtcttgc tcttttgccg aggtctggagt gcattgggtgc aatcttggct tactgcaacc 15960
tccgaaaact attgtccagg ctggagtgca gtgatgcgat ttcagctccc tgcagcctcc 16020
gcaacctctg ccgcccagggt tcaagcaatt ctctgcctc agcctcccga gtagctggga 16080
ttacaggcac ataccatgct cagctaattt ttgtattttt agtagagacg gggctcacc 16140
atgttgccca ggctggtctt gaacttctga cctcaagtga tccaccgcc ttggcctccc 16200
aaagagttgg gattacaggc atgagccacc gtgcctggcc tctgattcaa gtttttgttt 16260
tgttttgttt tgttttcctt actgaggcaa aattcttgta acataaaaatt aaccatttta 16320
aagtgaatga ttcagtggca tttagcaggg tcacaagggt gtgcagccat cacttgatc 16380
tcgttccaga acatttctgt cccccaaaaa ggagaccag actcatcaga agtcactccc 16440
cgccccctcc ccagcccct ggtcaccacc cgttggtctc gtctgtggat tagcactgtc 16500
tggatccttg tgagcttttt aaaaaaaaaa tgtttttctt ttgagacagg atcttgctct 16560
gttaccagg ctggagtgca gtggcacggc cacggctcac tgtagcctca acctctgagg 16620
ctcaagcgat tttctgcct cagcctcctg agtagctgga actacatgca ggtgccacca 16680
tgcccggcta atttttgtag agataggatc ttgccatatt gtccagcctg gtctccaatt 16740
cctgggtgca agtcatctgc ctgctgaggc ctcccaaagt gttgggatta cagggtgaag 16800
ccatggcgcc tggccctcgt gagcttttga gagaggcccg ctgctgttc cttgttaact 16860
tgtccttcag gcctgttgct cattgtcccg agggtgagct ggtgtttgcc tggtttggtt 16920
ggtcagtggc gaggttgagc tcacatttgt agcaggtgtg tctacaggga cacactcctg 16980
tggatgcagg gagatctggc cacagggtgca cacacctgag ctccgatcat tgctgctgt 17040
cctgcagggg acagtgtggg ctgcttggct tgcgcttgag actccccctc ccacacccaa 17100
gttcaaactc ggcgttgct tttccatccg tgctcccta gcaccttgt gcaccatgca 17160
tttccccctc ccacgcttg cttctgcctt ccctccacc tggaatgcgc ttcccgggca 17220
tccttcacct ggctcctgtg aagaggcctc ttcttctttt tggctctctc tgtcagaatc 17280
agcggctcct gcctacccc ttctctggcg cagagcttgt cctcatcac agggcctggg 17340
gctttttaca gaatggagga agggatcctc tctgtctggt tatcttgta tcgccacggg 17400
ggtgccctgc agaccacagc tctgtgcaga cctccggcct ggcaggacct gccaatatac 17460
tgtccttgct tgatgtcccc tccctgcccc tcttctaggt gccccttgt ttctctccca 17520
tcctcacttc ctcaacgctg acccggttct ggcagaagcg gtgactggcc tgcacctaa 17580
ccaggaggca cactccttgt tcctggacat ccaccgggtg agccctgccc atcctctgtg 17640

gggggtgggt gattcctgggt tggagcacac ctggctgcct cctctctccc caggcagaga 17700
gctgctgtgg gctgggggtgg tgggaagcct ggcttctaga atctcgagcc accaaagtcc 17760
cttacttcac cccgactcca tagttcaagg tagttcaagg gttttatgat ccctgtactg 17820
gtttctataa atgggctcta agacagtaaa ttaattagaa cttatcagct gggatgtctc 17880
ctacatgtga gctggaggca gccctctgga tgtgtcaaga taccataaag atcttttaggt 17940
accaagaaga gcctggggta ttttgcatat aaatcacaca gggaatttgt ccctgttgaa 18000
gttctgtcta caagcaggga gctggacatg tggccctccc aaggacactc cttcagcttg 18060
tggcctcttc tcttggcacc tccgttctct gtaaaatatg cccagttagt cttggtgggt 18120
gctaccattg attcagaaat ctgtggtttt ctgtttctct ggtgggcact tgtggtctat 18180
cccatgggcc ttttaacaaa ttattattat ttttgagaca ggtctcact cggttgcccc 18240
ggctgggggtg cagtggcatg atcatggctc actgcagctt cgacctccct gggttcagggt 18300
gatcctccca cctcagcctc cctaagtagc caggactaca gacatgtacc accatgcctg 18360
gctaattttt atattttttg tagagacgag gttttgccat gttgccagct ctggtctcga 18420
actcttgggc tcaagcgatc ctctgtctt ggcctcccaa agtaccggga ttacaggcat 18480
gaaccgccgt gccagccaa aattaattct cttaaattgaa gaagaaaagc tgtctatttt 18540
tgagtgtaca acatgatgtt atgatgtatg tatataactt gtggaatacc taaatcaagc 18600
caattaacat atgcattacc tcacatactg atgatgtatt ggtgctgaga acatttaaaa 18660
tctactgtca gcaactttca agcttacaat acattgctat tcaacttagt cactgtgttg 18720
tattgtatag tacaatacag tgactgttgc tctatttccc agtaggtctc cttaaacttac 18780
tccccctgtc taactgaaat tttgtatcct ttgacggact tccccatccc tggccctgggt 18840
agccagtatt ctaccctctg cttccatgaa ttcaactttt tttctttttt ttttctgaga 18900
tggagtttca ctctgggtac ccaggctgga gtgcagtggc acgatctcgg ctcaactgaa 18960
cctccgcctc ccgggttcaa gcaattctcc ctgcctcagc ctctcaagta gctgggatta 19020
caggcacaca ccaccacacc eggctaattt ttgtattttt agtagacaca gggttttgcc 19080
acgttggcca tgctgggtct gaactcgtga cctcagggtga tccacccgcc tcggactccc 19140
aggttgctgg gattataggc gtgagccact acgcctggcc tgaattcaac tcttttagat 19200
tccacataca ggtgaggtca tgcagggttt gctttcctgt gcctggccta ttttacttcg 19260
catagtgtcc ccagggtcgt catgttgtca caaataacag gatttccctg tttttattta 19320
tttatttttt gagacagagt cttgctgcgt caccagggt ggagtgcagt ggcatgatcg 19380
tggctccctg caacctctgc ctctgggtt caagcaattc tctgcctcg gcctccagag 19440
tagctgggat taaaggcaca caccaccaca cctggctaatt ttttgtaatt ttagtgagga 19500
cggtatttca ccatcctgac caagctggtc tggaaactcct ggctcaagt gatccgtcca 19560
cctcggcctc ccaaagtgtt gggattccag gcgtgagccg ccgcgcccag ctggatttcc 19620
ctctttttta acgctgaaca gtatccact gtgtgtgcac cacgtttctg ctgccattc 19680
attcactgac ggacacttcg cttgattccg tatcttggtc acagcgtaca tgggagtgcc 19740
cctgtccctt tgacacactg atttcatttc ctctgggggg atgcccggca gtgggatcac 19800
tgatccgatg gtagttctgg ttttcgttgt ctgaggaagc tccacacgtt tgccacaatg 19860
ctgtgcacct taggcccttc ccgaagctcc atggcggatg ctgttctgca ccatttttct 19920

ttgtcctccc aggcctcctt agccgctgac taggccctct cggccccggc cccagccctg 19980
gtctctgcct tccctctttt agttaattcc tectccagcc tctcttgctc tgctggcttc 20040
cggagaattc caccatgaac acagtctcct gtgcgctctc agtgatcgct ttcctttcag 20100
ggcacggatt ttctttcttc cctcacatc aagaaagaag gggttaagtt tgggagccca 20160
gagagaggca aacagctggt ttgccgcagc cactttagct gctgcgtcca attctacctc 20220
cagatgagct tgaggccgac ggggagagga agtggccttt atttctttgt tttttgagct 20280
gggcacggtt gggaggggga tcaggagatc agcttgctgc ctggtggcct ttagccttga 20340
aaaacgaacg tgtgttgga gctgcttccg tgtggccact tttctgctcc tgaaactggg 20400
ggagggcatg gggacggggg actcaacagg acgctgctta tgggtggatc acagctaaga 20460
cttattgtaa tgacagaatt caaagcaaaa ttagcaaaag gaaaaagcac cttgggtgaa 20520
gtcgggggag gccaggctgg agcttccaga gtcctcttcc aggggggttc tacaggatgc 20580
acttaatgtc tttagcaatg agttgtgaca acatgtagga gatgttgctc agcaggggaa 20640
ctcattagaa attcagtgc catggtggtt tgctaggggc cagtcatgtg ggcacctctg 20700
cctggcaggt accaaaattc taggctctgg gaaggaaagc aggtgctgag caagaaccat 20760
attgtttgta caaataattt cggcccagtg aactactctc atcagttagg ggatggggg 20820
gacctcctg aaatctgggt tcccagatgc cagcagaatt cctaaggaga gcagcttcag 20880
gcctgtggcg tgaactctgt tctactcacg ggtgatctca tgcccatccc accaggctct 20940
cgagggcaag cactccccag tcgtgggcgt aagtgaggcc tttaatgagc tcttctttgc 21000
cacaggggccc tggaaggtcc tcagcatgct gggccataat gaagaaaaca tcctttccct 21060
atagtgtacg tgataataac ctaggcattt atggccctgc gtgtggctat cttgcatacc 21120
ttacttttgc tcttgcaaaa attctgtcag gtcgggagag ttctctctgt tttacagatg 21180
aggacgcgac tctcagttaa gaagaaccaa ctgcagttct ctgacctcaa atctagtttt 21240
atttccacta tcatttcctg acttcattct ggaaccacct tctgttggt tttgatgaca 21300
catgtgtgtc acttcgggta tttacttaaa aaaaaaagtc tcgttaaaaa gagctgggta 21360
tagtggctca tggtgttaat tccactgctt tgggaggctg aggcaggaag atcacttgag 21420
gctaggagtt tgacgccagc ctgggcaaca tagtgaaact ctgtctctac aaaaataata 21480
atgataaata ggctgggtgt ggtggctcac gcctgtaatc ccactttggg aggccaaggt 21540
gggcagttcg cttgctgcca ggagtttgag accagcctgg tcaacatggt gaaaccctgt 21600
ctttactaaa aatacaaaaa ttagccgagt gtgctggcgc acacctgtag tcccagctac 21660
tggggaggct gaggcaggac aatcgcttga actcaggagg cagaggttgc ctgcactcca 21720
gcctagatga ctgagtaaga ctctgtctca aaaagaaata aaaataaatt tctgcacaaa 21780
ggaagctttt tcttactacc tcaaataagga aattacaaaa ttctccaaaa aaagaagaca 21840
accataaaaa tgaacaagga aaaaaatatt aggtctctatg taaaatattg ttgtctgtca 21900
gcaggagtga acctggggcc agctgtcagc accattgtta gaagtggaga ttttgtgtag 21960
gtgtattaga ggggtattaa agaccatgca aacacctggc tgagacctac tcttcaaaat 22020
gatcaggagg agttgggagt gaattgagaa gggacttttg tctgttttat tgaatgtgga 22080
ggttgagagg gagcatggac aaattgccat tctgcacttt gggaaacgct gtcttaggag 22140
gacaggtgaa agtgattagg tattttccac cctgagacag ccttgcttta tagaaggaac 22200

ctctttgagg ctgtgaacat aactgtgtgg gaagcacttg tttccctata aggggttaga 22260
atcaggagag gagatcccag tgcacctgcc cagcatttct agaactgttg acccccccca 22320
gcctgtgggt tgttttaggt aagatacaag caagctccac tgggcagtta gctgggacgc 22380
ccaccctctt gactgggacc agggagagga gggttgacgg tgtccctgga gcttgggggt 22440
ggcagtcctc ctcaactgtgt ttgttgccgc aggtcacggg aatcccatg aactgctctg 22500
tgaaactgca gctgagcctc tacatgaaat ctgtcgcagg cattgggtga gtggggactg 22560
ggagctgggg ctgcattgct cattgagaga ttaggtgctc agtgctccag tggccccaga 22620
ctccagtgc ataccccagg aaccagggca tggggagggg agaggggcct attgggggtg 22680
gaatccagtc cctgctgac ttctccctga ggggtcttgg ttttgagcca ggtcctgacc 22740
tgcacctga tattccttcc ccagaacacc acttttcttt ctcttttttg ttttgttttg 22800
ttttgttttt gagatggagt ctgctcttg ttgccaggc tggagtgcaa gggcgggata 22860
ttggctcacc acaacctccg cctcccagg tcaagcgatt ctctgactc agcctcctga 22920
gtagctggga ttacaggcat gtgccaccac gccgggctaa tttggtattt ttagtagaga 22980
tggggtttca ccatgttggt caggttggtc tcaaactcct ggctcaagt gatccacca 23040
cctgggcctc ccagcatgct gggattgcag gcgtgagcca ccgtgcccg ccttacttt 23100
tcttttttaa cattcaccct ctccctgcca attagccaga gcttcaatcc aagctgtttc 23160
ctacacgaca gagtggcaga aatgaaagcc tggcaaaacc aaatgtttga aaatggaaac 23220
gctgaggcag gagaatggcg tgaacccggg agggcgagct tgcagtgagc cgagatcgcg 23280
ccactgcact ccagcctggg cgacagagca agactccgtc tcaaaaaaaaa aaaaaaaaaa 23340
gaatttttca agcactgatt tcctcttttt gattttttaa ataaaacagc tttatgcaaa 23400
tataatgcat gtaccataaa actcaccct ttaaaatgca caattcaaaa taaaaaaaaat 23460
aaccacctca ataaaatgca caattcagt atttgagta tattcacaga attgtgtatc 23520
tataccaca atcaattttg gaacattttc atcatcccca aaagaaaccc cacactcatt 23580
aacactcact tccctgtccc ctacgcccc ggcaaccgtt catccacttc ctgtctctgc 23640
ggacttacct attctgggca ttcatataa atggaatcat acactatgtg gtcttttgcg 23700
actggcttct ttcatttagg atcacgtttt caaggttcat ccatgtcgta gcatggatca 23760
gtatatttta tggctggata atattccatt gtctggatag accacattta tttatcggtt 23820
gatggacgtt tgagttgttt ccacgcctgg gccgttatgc ataatgcagc tgtaaagtgt 23880
cttgtgtcag tcccagtgtg gacatctgtt ctctgtttcc ttaggtatgt accgaggggt 23940
ggaatcgctg ggtcctatgt taactctttg ttttaaccgtt tgaggaacag tcagacttgc 24000
acagcctctg cccccatcc ccattctttt tttttttttt ttttttttga gacggagtct 24060
cgctctgtcg cccaggtgg agtgagtggt cgcgatctcg gctcactgca agctccgcct 24120
cctgggttca cgccattctc ctgcctcagc ctcccaagta gctgggacta caggcgcccg 24180
ccaccgtgcc cggctaattt tttgtatttt tagtagatac agggtttcac catgttagcc 24240
aggttggtct cgatctcctg acctcgtgat ccgccgcct cgggctccca aagtgtggg 24300
attacaggcg tgagcaccgc gccgggcccc atccccattc ttagcagcag tgcagcaggg 24360
ttccagttcc tccccacgcg caccagcact tgctataaca ttacacgttg ctagaacttg 24420
gtgagggtt atactgattt gttgctatgt cagtgtctgt acttcttagc atatctgaaa 24480

tagtttcgtt aaaaaaaatt ctcttagaaa aatccctggg ttgcaggaat gtgagcatct 24540
attcagcttt gtcaaagcc tctcggctgg aaagaataac actttgtcag agcacggcag 24600
cgagtaataa ctgtgagctc tcttccttca tcccgccctt gcatttttatt tttatatattt 24660
gaggccactt agggaaatttg ttcttgatgg atttggtggg ggggaaacag cccagggcat 24720
ggaagaggcg tttgcagccc aagtcctccc tctggttcca ccgcgtggca cctgggctgc 24780
taactgggat gcaactgggg ccaagtgggt gaccagatag aagaggcgac ctggggccga 24840
ggatacagcc ccttcccagc accagctgac tgtagcccca tggaaatgcg ggctcagtgt 24900
ggccacatcc tctgcatttt tcaaaaggac ttccaaatct gaattttaac aggagctctg 24960
tcaattttta ctattggga ggtaattcac attctttttt tttttttttt tttttttttg 25020
agacgaagtc ttgccgtgtc acccaggcca gagtgcagtg gcatgatctc agctcactgc 25080
aacctctgcc tcccggttc cagcgattct cctgcctcag cctctcaagt agctgggatt 25140
acaggcgctc gctagtacac ccagctaatt tttgtatttt tagtggagac aggatttcac 25200
catgttggcc aggtgttct cgaacttggt acctcaggtg atccgcctcc cagagtgtctg 25260
ggattatagg catgagccct gcgtggggc taattcacat tcttaacaaa cagttcacgc 25320
gggcagctgg attgtgcctg ccagtgcct gtggaccggc caccaacct ctctgggccg 25380
cacagctgct gacctccctg tggactggga acaaggcact ccaggaaagt ggtctcaaca 25440
gcagatgtgg agggccacga gggatggcg tgggaaaagt ctagagacac agctgccggg 25500
aagcagagct gtctcgtgac ctgtcgggga agcttctgtg ctcttgctc gctaggtaaa 25560
ggcagtgagg ttgcatgta cttgaataca attcccattg gttcttaca agtctttcag 25620
agaaaagcag ccaaagtaaa tggtagcgtc tgttgctctc ccatcgtgtt tcgtcctctg 25680
tagggtgata gtgtgagccc atttactgt gcaataacct acttaacaag gggcctgaga 25740
gacctccaat aattgtgatt gggggatttc agcctttttt tttttttaag atggatcttg 25800
ctcttgctgc ccaggctgga gtacaatggc gcgatttcgg ctactgcaa cctccgcctc 25860
gggttcaagc gattctcctg cctcagcctc ccgcgtagct gggattacag gtgcccgcca 25920
ccacgcccag caaatttttg tatttttagt agagacgggg tttcactgtg ttggccaggc 25980
tgggtctaaa ctctgacct caggtgatca cctgcctcag cctcccaaag tgctgggatt 26040
acaggcgtga gccactgcgc ccggtctctg atttggttat ttgagccttt tgtgctgact 26100
ttcgtcaccg cccctcagtg acttccatct cccctcccta ctgctgtgca tggcaaagtg 26160
acagaatatt tgtgtgtcca tttctttgct gggatttaac aattataaca acaacaataa 26220
taaatgtgcc aagcactttt atatgccggg taattttcga agcactttac atgtattact 26280
gcattgaatc ctocctagag tcctaggaag agttacgtta taatatctcg cttatacaga 26340
agggacacag gctcagtagc acgcccagg tcacagagct cgtaagtggc tgtgtcaggg 26400
gtcccaaggc caccgcaggc tcgacgattt gctgggaagc ctcaggacga agcatatggg 26460
tgtacacgtg gctatgattt attacggtaa aaggattcaa agcaaatacag caaagggaaa 26520
agccacacgg ggccaagtcc agaggaaagc aggtgccagt ttccagagcc ctctcccagg 26580
ggagtcaccc aattcttgct gcaaggagtt gtgacaaccc acgtgacatg tcactgtggc 26640
gggaagcccg ctagagagac tgagtgccca gggtttttac taggggctgg tcatgtggcc 26700
accctctgcc tggcaggtac tgaaattcca gaccctaga aggcaagctg gtggtcagta 26760

taaaccacat tacttgtaca gattgctcag gcacagttag ccatccttgt cagttagggga 26820
gcaatgggag gcctcccgaa tccaggctcc cagacgccag ctccgggcca gcattgccag 26880
cagcctgtgt ggggtggaag ggctcgggcc tgccacgtga gcacgtgcct gcacagcggc 26940
ccagggtggga ttcaaatacca ggcagcgacg cttgagtgtg cactattaac cacctcgcca 27000
cactgccttt tctgctagac acctgttgtg ggggggtctg tgtggggcaa gtggtgagcc 27060
agcccaccct gctgctccat actgagtgtg agttgctgta ttcatttcct tttgctgctg 27120
tcacaatttt gccacaaatg tcatggctca cttttaaaaa ctatcttgca gtgttgggag 27180
tctgaagtct gaaaggaaca caacaaggct aagatcaagg tatctgcagg ccttgcttct 27240
tccagaggct ccaggggaga acctgtgcct tgccgtttac agcttctaga agctgcctac 27300
tttccttagc tcatgacctt aatcctagcc ctccctgttt tgttgttgtt gttgttgtt 27360
ttgagacaca gtctcgtct gctatctaga ctggagtaca gtggcatgat ctatagttca 27420
ctgcagcctt ggctccttg gcttaggcga tcctccacc tgagcctcct gagtagctgg 27480
gactacaggc atgtgccacc atacctgct aatttttgtg tttttttgt agagacaggg 27540
gtctcactat gttgccagg ctggtcttga actccagggt gcaagtgatc ctccacctc 27600
agcctcccaa agtgcctggga ttacaggcgt gaaccactgc acttggcctc tccctcttta 27660
aagccagcag ttagcactg tccaatttct ctctgcctct aacctcctgc tccctcttt 27720
tttttttttt tgagacggag tctcactctg tggccaggct ggagtgcaat ggcctgatct 27780
ccgtcactg caacctctga ctccctggtt caagtgatc tcctgcctca gcctcccgag 27840
tagctgggat tacaggcatg tgccaccacg tccggccaat ttttatattt ttagtagaga 27900
tggggtttca ccatgttgcc caggatggtc tcaatctcct gaccttgtga tccacctgcc 27960
tcggcctccc aaagtgcctg gattacaggc gtgagccacc acgccccagc ccctcttttt 28020
aaaaattaat ttttcttttt ttaggggtttt aaaatttgtt tttgtttttt cgtttttctt 28080
tctcttgctt gattgctctg gctaggactt cccgcttctc tctttaagga cttttgtgat 28140
tctctggggc ctacctaggt attccaggat actcttccca tctcagaacc ttgatgtaac 28200
catatctgca tggaccacc tagatattcc aggacgctct ccccatctga gagccttgat 28260
gcagtcatgt ctgcacggtc ccttcgtcg tggcagggtc cagtttccca ggtgtcgcat 28320
tggctcttcg gtctccttag gcacctttt gctgtgacag tctctcatct ctccctcatt 28380
ttgatgacag tgacactttt gagaagcact ggtcagggtat tttgtaggat gaccctctac 28440
tgggattggg ctgggtgcttt tctcatgatt agactggggg gatgggtttt gggaggagga 28500
ccgcagagag aaagtccag tttcagagca tcttgggtac attcogtcaa catactgtat 28560
cactgttgat gtgcacctg atagcctgga tgaggctatg cctgtgacgt ttctgcagta 28620
tcaagtttac tttattctc ctttggatt ttattatctt tttaacttga cgtgtaagtt 28680
ttaacttcac aggtataaag aacatatctt cctgagggga agaataatggg ttccctgtgac 28740
tccccgcat ccccgccgt acccaccatc atcaatttgc tgtgcttctt tccaggcctt 28800
ttctacttta ttacattca tatatatgtg gccatagaga agatacatat tgtcgtttgt 28860
ctgtttgtct ttgctagtc aagcaacact gaacatcttt gtgcctctgt gtgcctgtgt 28920
gagcatctct agggcagttt ctgaagagcg taattgctgg gtcgtgaggt atattgggtg 28980
aattaggttt ggcagtatag atcagtaaac tcaacagttg tggctcaaat gggacaaagg 29040

tatattgtta ttttaaaaat cttcttttag aggatgtctg gaggcagaca gtccaagtat 29100
ggcaagagac attcatagtc caagttccac tcatctttct gttccatttt cccaacacat 29160
ggcttccatc ctcaaggtca cctctggtcc cagtgtctgc agagctccag cccttgcac 29220
tgcgtttcag gcatctgaaa gggaggaggg aaaaaagggtt cacctcccag ctgtgaaagc 29280
ttcttttttaa gcagccctcc cggccatccc acgtaacgct tctgcgaaca tctcattaac 29340
cagaacttgg tcacagagcc tcaacttgcca caagagaggc tgaagtggag tctttaactg 29400
ggtgcattgc catcctgagt aaaatttggg tcctgtttct aaaagggacc aatggatttt 29460
ggctgggtca ctggtggtct ctgccctgta ggagatgtga gtttttagtt taaaaagatt 29520
attttcaagt tgtcaagctc tttgccaggg gagattcctt ctggcagcac atcgaaacac 29580
tggttccctc agcccatgcc aatcaagtac catggacccc ttatccctgg gggatatattc 29640
caagaccccc agtggatgcc tgaagctggg gatagtactg aaccctgtat agcatatact 29700
atgcttcttc ctatacacac acatctatga taaagttaat ttataaatta ggcatagcca 29760
caattaacaa taactaagaa tagggtaatt ataacaata ctataataaa agttatgtga 29820
acatggtctc tccctcaaaa tatcttattg tactgtactg agggtaagaa atggcagaaa 29880
tcaaaaccat ggataaggag ggatgactga gattgcagaa tcaaaccct cctggcctca 29940
gagcttatga tcacaggttc aaagctgtgt gatgtcaaac agccctgtgg gaaaacatct 30000
caccttgtca actaaagaaa aaaaaaaca aaacgccttt taaagattta aagttagtct 30060
tatttacaag tattattgag ggctgtagac tgagaccttc agcctgggga cagttttgtc 30120
atatggctcc taaagtgttt cagctcattg tttatatattg gtggtgaggg tttagtgtgt 30180
gcaaaattat actaaacctg tttagatgtt gtattcaagc agaattagat caagtttggg 30240
tgtaagactt tgtttcacac agctatgtct tgcttatttc cagacaaact gggaagattg 30300
agcctgtggg cctgccgctg ctctggtttg cagaggtaag ggtgcgttgg gcacagcgtc 30360
gggggctttt gttaagagcc aatgtgggca tttgaggcag gaggcggggg gagcagcttg 30420
tagaaaggga gagggctgag ccagggtaac cggactgtga catggaccag cgtatcagaa 30480
acttcacct gtccaagcac cctatgtcag ttatcccacc aaggtgaaag ggatccctag 30540
agatggggaa gacagaagct gcatgaagag gtaaagtccc tggccctggg tgtaaaataa 30600
ttttgttggg gcatatgacc tcttctcctg aaagtgggga agttggtttc caagtggtca 30660
gcttttctct taaacttact tctctcgag cttttcagaa ttccttctgg cctagcttgt 30720
tttattttat tattttattt tattttattt actgtattta ttgtttcttg cccacctcgt 30780
tttaaatcag ggctagctaa tggccaggac aaacaagcct ccgaatgtca agtttacttc 30840
ctactcacag ccgaatctga agtgggttga tggggaggca gagctctgct ccctgcagtc 30900
atttagggtt ccagggtccc ggtggccccg ccatcctgga gagcctccat tcagtggcag 30960
ggaacgagat ggagagtcac gtgaggccag gtccacctcc cattggctcag gacacgatca 31020
tatggccctg cccaactgca agggagtcgg ggaattgtag tctcaccttg tgcctggag 31080
ggaggagggtc cctggcaggc tccaacacat gctttagccg ggaagcttga ggtggggaaa 31140
agctgaggcg ggcacagagg aaggtgttgg gtggcatctg cgctgtagcc cgcagcctgc 31200
ggccccagct catgtgtttg tcattctgtc tcctcagagc ggggccatgg agggggagac 31260
tcttcacaca ttctacactc agctggtgtt gatgcccaag gtgatgcact atgccagta 31320

cgctcctcctg gcgctgggct gcgtcctgct gctgggccct gtcattctgcc aaatccggag 31380
ccaagtaggt gctggccaga gggcagcccg ggctgacagc cattcgcttg cctgctgggg 31440
gaaagggggc tcagatcgga ccctctggcc aaccgcagcc tggagcccac ctccagcagc 31500
agtcctgcgt ctctgccgga gtgggagcgg tcaactgctgg gggctgcgca gcacgcttgc 31560
gtctttttgca tgccgcgttg ccactactct gctgttctg gaaggcctgg gaccctccct 31620
tggagggggc acaggtgggc tttgagtaat gagacctgg acttgcatca tccattcatc 31680
aagtcagcac ccggggatgc cagggttctgt taggggcgag gggacgtaca gcagtagagg 31740
agacagctga gatccctgct cagggggatt gaggggggct gccatcccag ccggggagac 31800
agatgaaaac caagtaaatac agcagaaaag ataatttcac tcatgatagg agctgtgagg 31860
ggtttagagcc aaatagaaat acagcgtgag ccacgtgtga ggttttcagt ttaaattttc 31920
taatagccac ttaacagtca aaggaaacag gtggaattaa ttttaattct atttaaccca 31980
aatatatgca aagtattatc acttcaacat gtaatcagta taaacggcat caatattttt 32040
gcagtgtttt tgcataagat ctttgaaatc ctgtgtgtac gatacatgtg cagcaggtct 32100
cattttggac tggccccgtt tcaagggctc accaactgaa tgcagcttcc agactggaga 32160
gtgcatgtct ggagcaagtg gggacaagga cagatggagc ttcaggaagg cctctctgaa 32220
gaggtagata gtgagctttg acatggaggc cagggaggca ctgagcacac agccacatga 32280
ggaatgctgc ctggagcggc cactgcaaag gccctgtggc agggacaggc aaggcacatt 32340
ggacggtcag gtagggccag ggtggctgga ggggagttag ggcagggaca gaggtaggag 32400
gtggtgtctg agagtggaca gggcgggcca cccagggcct cgtggtgcac agtgagcagt 32460
ttggaactga ttctgggagt gacagaggca ttggaggctt ttaaagaggg gaatcactag 32520
gtcagctgct ggctggggaa tgggcccccg gctgggaggg gtggaagcct gggcccagcg 32580
gggaggcccc agtgctgtag gaagtcgatg gcttgaacag gatggggcag ctgctatcag 32640
gagggaaacg aagtggggaa gagctccagc cctgggcctc agacctccag aagcagcagg 32700
aagaggggtg ataacagtgt ccctccttgc ttccgggtca tttatttatt cattcatgca 32760
ttcactgcaa ggccctttgc acaggtcagg ggatgcagat gaccagaaca taagatctgc 32820
agcaaagatg ggcaaggcag gccttttagc aagttactac agtcacacga aggacaggag 32880
agctgtgatc acagagctca aggggcagtg gagatgggcg agtggctgcc atggcagggg 32940
aagggatgct gccactggc aggtcatcag gaaaggctgt ttttgatgc atggaccaga 33000
aagccactct ctgaggtggc cccacactgc atcatcctag ggccacaggc cgaggccttc 33060
tgaggggcct tggggctgcc ccgctgctct gctggtcttg gtcctctgc agcacctgct 33120
tccttttagca ctggtgaatg attcttcctc tccccctgtc tcagggaagg cttgctgct 33180
tccatgcttg catgctgggt gacaataaag cattcctgg tcttcacctt ggctttcaga 33240
cctgaaaccc gacttccttt caaaattcct gtcctcgggg ggaaaagggt tccacaatgt 33300
gagatggtag cctggacacc agctgtcatc atgttgctgc tctagcgttt gagctcccga 33360
tgaacaatga ccattgggtc caaccagccc ttttgggagc ccccttctct gttactgcc 33420
cagggggagc cagaaccag cagggtgtg actccagcga gcaaaatgga actccctcca 33480
gtttctagac tgaattatgt agggaggaca gaaggactca gaaccacac tcccagacca 33540
tgaatacctt ccggtggcag agcatcacca taggtgtcca caagtgcga cgcacagcca 33600

catgagggggg tccctgggga ctggctgagg gactggggcca gaggaggcca tgacagcctc 33660
atccctctgt ctcccttctgt ctgtctccaa attgtccacc agaattgggga caggggaagga 33720
gggtcaggaa gcacagaagg tctaggctgt ggctagggtc cctttccctg ccgcagcccc 33780
caaatcagca tcccaccctc aaatccagta agaatgctac gatcggcagt gtggctccct 33840
ccctgcagggt ttcactggag gccacgtaag tgaaatttat ccattatgt gtgttttgat 33900
gtagcaggac cttaccagtt ttttttgttt ttttattttt attttttttg gtttcttttt 33960
tgagatggag tcttgctgtg ttgcccaggc tggagtgcag tggcacaatc ttggctcact 34020
gcaacctcca cctcccggt tcaagtggga gcctcagcct cagcctcagc ctcagcctcc 34080
cgagcagttg ggattacagg cacctgccac catgcctggc taatttttgt atattgagta 34140
gaggcggggt ttcaccatgt tggccaggct ggtcttgaac tcctgacctc atgatctgcc 34200
gccttggcct cccaaagtgc tgggattaca ggtgtgagcc actgtgcctg gccggcctta 34260
tcagttttta tgtaatttgt cctgatttaa aaaaaaaaaa tcacatgcgg gtaaaactcaa 34320
catattttta tttctcttta gagaaatttt ccacttgagc caggtatggg ggctcttgcc 34380
tgtaatctga gctactcggg aggttgagggt gggaggatca cttgagccca ggagttggag 34440
gctgcagtga gccatgatcg caccattgca ctccagcctg gacaacagag tgagatcctg 34500
tctcaaaaat taaaaaaagc agtaattttt tcttctcaag tcattctttt aaaataaatc 34560
aaaagtattt taacagaaca atctgttcct cgttgatttt aaacagcccc ccagctaaagt 34620
ccactggttg tcggtctcca tggcccatct cccacacttg ctctctcgct ggcttaaatt 34680
ttcaagtgga cgagcccttt tcagcttggc ttgtccacct ccaggtgtg tttcctgaag 34740
atgcttgtag ttatgtctaa gagcggcagc tccccacatc tcagccacct gcaatcgttg 34800
agggttgttg gactctaaac ttatgtgcct ttctgtttc ctctttgcct tttgcaaatt 34860
gaagaaccgt gtaaaaccat ttttatgtgg cttcaacgtc aactataaat tagcttggtt 34920
atcttctagg agaaatgcta tttatttttg agtagtagta aaaagggtc aaaggataag 34980
gaggccattc aggcctattc tgaatccctg atgacatcag ctccaagggt ctctgtgctg 35040
caggaagcaa aactgtaggt gggtaaccagg taatgccgtg cgctccccg cccctccca 35100
tatcaagtag aatgctggcg gcttaaaaca tttgggggtc tgctcattcc ttcagcctca 35160
acttcacctg gagtgtctac agactgaaga tgcataattg tgtattttgc ttttgagaaa 35220
actgcccttc ctatgttctg agtgaatagc agtttttttg atcccagagg gcaacttgta 35280
ttctgtgggc tgggtgcctat ttgcaagggtc acattagaaa gacaggagca aggcttaggc 35340
ctgctgcttc tggaatctct tgtgcaatag actcccttg ggaagtctgc tagaaatgca 35400
gatccctggg cagccttcta gccttctgga ataggatcat ggtgggacct tggaatctgt 35460
attttaatgg accctaata gattctgatg tagaaacatg tttgagaggc attgatctaa 35520
atctgggatg actggccagg tgcggtggct cacacctgta atccagcact ttgggaggcc 35580
gaagcaggtg gatcatttga ggtcaggagt tcaagaccag cctggccaac atggtgaaaa 35640
cctgtctcta ctaaaaatac aaaaaaaatt agctgggtgt ggtggcacac gcttgtaatc 35700
ccagctactc aggaggctga ggcaggagaa tcgcttgaac ccgggagatg gaggttgagc 35760
tgagccaaga tcgtgccact gcactccagc ctgggtgaca gagtgagact ccgtctcaaa 35820
aaaataaaac taaaataaat aaataaataa atacatctgg gatgactgac caagaacaaa 35880

gaatgtaggc	atcaactgaa	caccaactgt	atacctggga	ctggatctga	gggtaggatt	35940				
gccagattga	gcacaaacaa	acaaacgaaa	cacaagaaac	aacagaaggg	tgctgttaa	36000				
atatgaat	ctggtaagca	ataagtaatt	tttattgtgt	tctgtgcaa	tgataggacg	36060				
cacgtatcct	gaaaacctgt	ctgtagttca	cctgaaattc	acatttaact	aggcgttctg	36120				
at	ttttatgtg	gccgccctat	ctgctgggaa	cataggctga	tgccccctggg	ggttctgctg	36180			
ttccttg	gcc	aggttctgt	agggctgagg	tcatggggga	gccgtggcca	gggatgggtg	36240			
ccttgccag	ggaggtgacg	ggcagagctg	caggccctac	aacttgggg	tgggcaggg	36300				
tgagtcgctc	taccgtgggtg	cctctgataa	tagctgttat	tttagtttct	gaaaaatgtg	36360				
ctgccctcaa	gagcttctga	ggctaggcct	acttgggtga	aaatagcttt	ccagggagcc	36420				
acattgtggg	gacgtgaggc	agcagcccca	ctctttgggg	ccacttggct	gtctctaact	36480				
catctcactt	gccagggctg	gacaaggaga	tgaaaaagaa	aatgccaaagg	ggtagggcag	36540				
caggagcctg	ttggcg	ttgg	caggcgctgc	cagccctgtg	tcccag	tcaa	gctctggggc	36600		
gcccttcctg	tccatctggg	agtaggggg	ggagctctgac	catgttgggg	tggagtgtta	36660				
atattaggag	aggatcctcc	ctgggacagg	gtccccaggc	ttgggggcaa	ggccttctgc	36720				
ctggaccccc	ttcctttcct	ctctcccagg	attcctccag	gacaccgtag	tgctgtgcac	36780				
ggtttggccc	catcggtgtg	cctgctcctt	ccagccactg	ctcccttctg	cagaaacttg	36840				
cctgggattc	ccaggggtgca	gggggtgggg	ctggtcaggg	gctggtcagg	gcctggtcag	36900				
tgtagagcag	ggagcttttc	acttttagca	tagatagagt	ggccagggcc	ccatggctgc	36960				
acctccctgg	acataaccag	gatgtcctgt	catctgcccc	ccaaacaaaa	ctgggggtctc	37020				
ccctttat	tgccaacaga	atccaat	ttt	taggtgatga	gacaagtgtt	tgacttgaaa	37080			
agaccctcct	gcctgcctc	ctggaagg	tc	tggagcccag	cccagcgccc	cggatcccc	37140			
aggcatgtga	aacggggaat	gcagtg	tcct	ccagtggctg	gctgcagctt	gggggtgggca	37200			
cctgggtggt	ggctggtggt	ccccctgcag	gccactgctg	ccccctcttg	ggctctgttc	37260				
tgagctctcag	gcctgagtc	ctggggaagg	ccccacacct	ttgcctgt	ctgggtatg	37320				
gggatggccc	tgaggggctg	ccttgcttg	gagaaggggg	gaaaacagat	at	ttttatat	37380			
aaataagaaa	aagacagccc	ctctgggcag	atgaggcctg	ctgtagggca	gggggcttg	37440				
taaactgtgt	gtccactggt	ctgtaaccct	tcagctgggt	ccttttgtgc	agtgaacagc	37500				
ctggacaact	gtccaggtgg	cccttcagg	atatgttct	ggaccttct	tagcttctca	37560				
ccgatctt	ttccacgcca	agtccatgtt	cctcag	tcaa	acaagtggca	aagaggagga	37620			
ggaggagggg	aaggaggagg	aacctgcttc	accctctggc	acctgcgggt	tttgttccac	37680				
gtgtcttct	tgggaaagac	aaggggttct	tttacagcct	aggggtggtt	ttcccttct	37740				
acttctgagt	gagaccttct	caagtcacgg	ctctttgggc	ccacatggct	aaggtctagc	37800				
cacctgtggg	tgtcctgtgc	tgctcagtg	gggtggtgtg	gggcggggct	gacctcccc	37860				
gcgcctggct	cagtg	cagca	gaccctggcc	cctgtgccc	ctctctgccc	tgagcaggag	37920			
tttgat	ttt	ctacccctg	gtgaagcaag	cacaggtggg	cggaggtggg	cagcggtttc	37980			
cagccccagc	caccggggca	gggaggcctc	tg	ttgctcag	ggcaagggag	gcagggggct	38040			
tagtgggacg	aaggctcacc	ccacactctt	atcattagca	ttatctgtat	ttttaat	ttt	38100			
t	aaq	ttq	aa	ttt	ctac	aactgtcaaa	ctagacaaat	gacagtatcc	agttccccctc	38160

accagacgc agccattgct gacagctgtc agtgttgaag atggccagca tctcatgccc 38220
ttgggtttcac tegtccctg ggtggccctc gtccccctcc ccacgtcctg cgccccgcat 38280
accctgagca gccatggcca ggaacttggc acgtgggttt gttttttctg aatctgcatg 38340
tgccagacca tgagcatgag gtcacttttt gaatgtgacc gaagctgcat cctgctgctg 38400
gtattgctgt gtggctggct ttctccctg tcttctgttc aggaatactg ttcaggctga 38460
ataccgtcct gtgacatggg tttaaaaaca caggccaggc atggtgtctc acgcctggaa 38520
tcccagcgt ttgggaggct gaggtgagag gatcgctga gccaggagt tcgagaccag 38580
cctgggcaac atagacctga tctctacaaa aaattaaaaa atgagccggg cgtgggtggg 38640
gcacgtgtca ttgtcccgcc cacttgggag gccgaggtgg gaggatcact tgagcccagg 38700
agttcaaggc cgtggtgagc catgatggca ccaccgtact ccagcctggg cgacagagag 38760
agaccgtctc taaaaaataa aaaataaatc aacacataaa catacgttct cctcctgagg 38820
gacagagctt gccccggttg ttccatgttg actgtgctgc acacaggccg ccccccttgc 38880
tctgccctc actgtattaa gtctctttgg gcctcagttt ctccatctct aaaggaggctc 38940
ggggaggcca ggcgggtgtt gagtgagatg aagaggccct tggagtcatt ccaggagtct 39000
ataggtgact ccagtctctt ctacttctg acagcctggg ggcgggggtg gagtctctgc 39060
tgggatgtg ggtacagggc tgtggtgggc ggggatgagg gtgggtttg gtgacagggc 39120
gtgggtgtc acccagcttt gcctttctcc acagggtcct gaggacaccg tgagccagcc 39180
aggcctggc gctgggcctg accggcccc cagcccctac acccgcttc tcccgactc 39240
tcccagcga cagccccca gcccacagc ctgagcctcc cagctgccat gtgcctgttg 39300
cacacctgca cacacgccct ggcacacata cacacatgcg tgcaggcttg tgcagacact 39360
cagggatgga gctgctgctg aagggaactg tagggagagg ctctcaaca agcactgttc 39420
tggaaccttc tctccacgtg gccacaggc ctgaccacag gggctgtggg tctgctgctc 39480
ccttctcgg gtgagcctgg cctgtccgt tcagccgttg ggcccaggct tctccccctc 39540
caaggtgaaa cactgcagtc ccggtgtggg ggctcccat gcaggacggg ccaggctggg 39600
agtgcgcct tctgtgcca aattcagtg ggactcagtg ccaggccct ggccacgagc 39660
tttggccttg gtctacctgc caggccaggc aaagcgcctt tacacaggcc tcggaataca 39720
atggagtgag cacaagatgc cctgtgcagc tgcccagggg tctccgcca cccggccgg 39780
actttgatcc cccgaagtc ttcacaggca ctgcatcggg ttgtctggcg cctttttcct 39840
ccagcctaaa ctgacatcat cctatggact gagccggcca ctctctggcc gaagtggccg 39900
caggctgtgc cccgagctg ccccccaccc ctacagggt cctcagatt ataggtgcc 39960
aggctgagg gaagaggcct gggggccctg ccttccgggc gtcctggac cctggggcaa 40020
acctgtgacc cttttctact ggaatagaaa tgagttttat catctttgaa aaataattca 40080
ctcttgaagt aataaacgtt taaaaaatg ggatgcctgc ctctgtgaca gccttgtttg 40140
ctgaggtcgt gggggtggg gcctctggga agttccgggc tctcttctc ttggtcaata 40200
gtcctttct ggtggctgcc aagagcgtct ctcccagggc cgggctgctg gcttaccttc 40260
ctgttgtttt caaatttcaa ccttgtgcaa tgttgagttt catagaaata ctgcatgagt 40320
acgcccttgt ttagaagcag cagggtctga gtcccatccc acagcccca gtgcagacgc 40380
ttttgccact tttgcatggg gcccctgga tgtgtttctg tgcatttctc tacaatcct 40440

gggtgcccata ggacatgccc cgtgttggtc taggcctttg ctttctgctc gttacataaa 40500
tggtgaagaa gagaagcggg taagagaaca gattggagcc atctaaaagt tctcatctta 40560
agtgtagatc attgcaaagg atggaatttt ctccgattgt catcatcggt gatgtttgaa 40620
tatgagacca tttcatcagt atttaagtgt gcccgctggg atctaactag gagaggagag 40680
gggtattcact gccgaacatt tcaaagaata tacgaacaag ctcttttatg gtcagaaatg 40740
ttagcccttt tccccttaaa cttgtatttc ctttcttctt cctcctaaa attttatcta 40800
aatgatattt atatttgatg cttttaagcc ttttattaat cactcctata cttgcctgca 40860
acataaatat ataagttgaa gcaaaccttt tttttttatt tcttgtgacc atcaagggta 40920
aattttttta ggtctggggc tgccataaca aaataccatc aaggccgggc gtgggtggcac 40980
acgcctgtaa tcccagccct gtgggaggcc aagaccggag gattgcttga tgccaggagt 41040
tcaagactag tctgggtaat atggtgagac cctcatcaat acaaaaaaaaa taaaaaaatt 41100
agccaggcgt ggtggtgggc gcctgtggtc ccaactactc aggaggctga ggtaggattg 41160
ctggaagcca agaggttgag gctgcagtga gctgtgatca tgccactgca ctccagcctg 41220
cgagacagag tgagacactg tctcaaaaag aaaaaatacc atcaataggt ggcttaaacc 41280
atattttct cacagctctg gaggctggaa gtctgagacc ag 41322

<210> 14

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 14

cagggctccg cgcctggcag

20

<210> 15

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 15

ggagcagccc atgtctgcgc

20

<210> 16

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 16

ctttggcgga gcagcccatg

20

<210> 17

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 17

acctgctgct tgatgagcga

20

<210> 18

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

T
O
P
I
C
A
L
P
A
T
E
N
T

<400> 18

ctgcgggttc tcgcccttca

20

<210> 19

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 19

ccctgtacac gtagggcccg

20

<210> 20

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 20

cctggactcc ctgtacacgt

20

<210> 21

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

RTS-0339-31-PATENT

<223> Antisense Oligonucleotide

<400> 21

ttgttgaagg tgatgttgct

20

<210> 22

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 22

gtcgttggtg ttgaaggtga

20

<210> 23

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 23

gaaggacacg gtgtcgttgt

20

<210> 24

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 24

tactcgagga aggacacggt

20

<210> 25

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 25

gggcatgacg atgtagtcgc

20

<210> 26

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 26

atgatgagct tcagggtcat

20

<210> 27

<211> 20

<212> DNA

<213> Artificial Sequence

Patent 2004-0000000

<220>

<223> Antisense Oligonucleotide

<400> 27

gcggttcatg aaggcacgtt

20

<210> 28

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 28

cacatgatct cacccacagt

20

<210> 29

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 29

ggtccttgta gcccacatg

20

<210> 30

<211> 20

<212> DNA

<213> Artificial Sequence

FOR PUBLICATION

<220>

<223> Antisense Oligonucleotide

<400> 30

gatcctgctg atgttctgga

20

<210> 31

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 31

gttcacttg tccacgaggt

20

<210> 32

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 32

agaagtcaac cttgctcagc

20

<210> 33

<211> 20

<212> DNA

RTS-0339

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 33

atcatgttgc actgacgga

20

<210> 34

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 34

ccattgatca tgttgactg

20

<210> 35

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 35

gactccttgt acattagctt

20

<210> 36

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 36

cagaagcctt cgttgggtgg

20

<210> 37

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 37

ctccaggcac gggcagaagc

20

<210> 38

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 38

aggccagtca ccgcttctgc

20

<210> 39

100499-264001

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 39

tcctgggtag ggtgcaggcc

20

<210> 40

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 40

aatgcctgcg acagatttca

20

<210> 41

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 41

cccagtttgt ccaatgcctg

20

<210> 42

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 42

cggcaggacc acaggctcaa

20

<210> 43

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 43

cccgctctct gcaaaccaga

20

<210> 44

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 44

cgccaggagg acgtactggg

20

Patent 339

<210> 45

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 45

gcattttctct tggctccgga

20

<210> 46

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 46

taaatagcat ttctcttggc

20

<210> 47

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 47

ggcctgaatg gcctccttat

20

<210> 48

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 48

atgtcatcag ggattcagaa

20

<210> 49

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 49

ttcctgcagc acagagccct

20

<210> 50

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 50

RTS-0339-41-PATENT

gttttgcttc ctgcagcaca

20

<210> 51

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 51

tcaggaccct acagttttgc

20

<210> 52

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 52

cgcatgtgtg tatgtgtgcc

20

<210> 53

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 53

tccctgagtg tctgcacaag

20

<210> 54

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 54

ctccatccct gagtgtctgc

20

<210> 55

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 55

agtgtttgtt gacgagcctc

20

<210> 56

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

Downloaded from www.ashg.org

<400> 56

tggtcagcct gtgggccacg

20

<210> 57

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 57

aacgggacag gccaggctca

20

<210> 58

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 58

caacggctga acgggacagg

20

<210> 59

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 59

acaccgggac tgcagtgttt

20

<210> 60

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 60

aaggccaaag ctcgtgccag

20

<210> 61

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 61

cgaggcctgt gtaaaggcgc

20

<210> 62

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 62

tgcacagggc atcttgtgct

20

<210> 63

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 63

accctcgggc agctgcacag

20

<210> 64

<211> 20

<212> DNA

<213> Artificial Sequence

$\langle 220 \rangle$

<223> Antisense Oligonucleotide

<400> 64

agtgcctgtg aagacttcgg

20

<210> 65

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 65

cgccagacaa cccgatgcag

20

<210> 66

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 66

ctcagtcctat aggatgatgt

20

<210> 67

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 67

cagagagtgg ccggctcagt

20

<210> 68

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 68

cacagcctgc gccacttcgg

20

<210> 69

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 69

tcacctcagc ctgggcacct

20

<210> 70

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 70

ggtttgcccc aggggtccagg

20

<210> 71

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 71

tttctattcc agtagaaaag

20

<210> 72

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 72

tttattactt caagagtga

20

<210> 73

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 73

cctcaggacc ttggctccgg

20

<210> 74

<211> 20

RTS-0339

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 74

tgtcacagag gcaggcatcc

20

<210> 75

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 75

acctcagcaa acaaggctgt

20

<210> 76

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 76

ccaggatttg tagataaatg

20

<210> 77

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 77

agagagcaaa ggccttagaa

20

<210> 78

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 78

agtcccgggc acctaaatcc

20

<210> 79

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 79

caaattctgaa ttgcgcgacc

20

RTS-0339

<210> 80

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 80

gtgttcaaat ctgaattgcg

20

<210> 81

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 81

ggccagtgtt tttatgcccc

20

<210> 82

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 82

cggcaggtgg ccagtggttt

20

RTS-0339

<210> 83

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 83

ccgcagaggc acggtggatc

20

<210> 84

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 84

cggcacgtac tgaacctgca

20

<210> 85

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 85

tctaagtgc ttccctgcta

20

<210> 86

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 86

agaccagcct gggcaacata

20

<210> 87

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 87

cccagtttgt ctggaaataa

20

<210> 88

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 88

tgccccgct ctgaggagac

20

<210> 89

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 89

ctgcagatct tatgttctgg

20

<210> 90

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 90

ctctctctgt cgcccaggct

20

<210> 91

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

Sequence

RTS-0339

-56-

PATENT

<400> 91

cctcaggacc ctgtggagaa

20

RTS-0339